Windows®. Life without Walls™. Fujitsu recommends Windows 7.



Data Sheet

Fujitsu ESPRIMO P5645 E-Star5 Desktop PC

Your expandable workhorse

ESPRIMO P5645 E-Star5

The ESPRIMO P5645 E-Star5 is equipped with the latest AMD technology and offers extraordinary performance. With the powerful six-core processor from AMD this system reaches new performance levels enabling fast and easy handling of challenging tasks. The ESPRIMO P5645 E-Star5 offers optimal expandability due to its microtower design. This system, also equipped with an 87% efficient power supply, is very energy-efficient and meets the requirements of the new ENERGY STAR® certificate. Reduce your costs by reducing your power consumption.

Microtower

Maximum performance and optimal extendability

■ Top-quality, high-value microtower, 6 drive bays, 4 PCI/PCI express interfaces

New performance high

Fast and easy handling of challenging tasks at maximum performance

■ High-quality six-core processor with Turbo Core technology

ENERGY STAR®

Low power consumption and low costs, without any loss in performance

■ Power supply with up to 87% efficiency and enhanced power management settings

Silent operation

Pleasant working environment due to an extremely quiet system

■ Innovative hardware design, optimized cooling concept

Serviceablitiy

Easy to extend and optimal user-friendliness without any additional tools

■ Easy access to all replaceable and expandable components

























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Components

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Processor	AMD Phenom™ II X6 1035T (6 Cores, 2.6 GHz, 9 MB)
	AMD Phenom™ II X4 945 (4 Cores, 3.0 GHz, 8 MB)
	AMD Phenom™ II X2 550 (2 Cores, 3.1 GHz, 7 MB)
	AMD Athlon™ II X2 255 (2 Cores, 3.1 GHz, 2 MB)
	AMD Athlon™ II X2 220 (2 Cores, 2.8 GHz, 1 MB)
Operating system	
Operating system	Genuine Windows® 7 Home Basic (EM) 32-bit
	Genuine Windows® 7 Home Premium 64-bit Genuine Windows® 7 Professional 32-bit
	Genuine Windows® 7 Professional 64-bit
Operating system compatible	openSUSE Linux
operating system compatible	Genuine Windows Vista®
	Genuine Windows® XP
Operating system notes	Microsoft Office 2010 preloaded. Purchase a Product Key to activate a full Microsoft Office 2010 suite.
	Limited Windows XP support. Microsoft discontinued Windows XP certification on system level.
Memory modules	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
·	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
Hard disk drives (internal)	SSD SATA, 128 GB, 2.5-inch
	SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T. business critical
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 320 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 250 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T.
	Supporting NCQ and 3 GBit
Graphics add on cards (optional)	NVIDIA® Quadro® NVS 300, 512 MB
Graphics and on cards (optional)	NVIDIA® Quadro® NVS 290, 256 MB
	NVIDIA® GeForce® GT 420
	NVIDIA® GeForce® 9300GE display port low profile, 512 MB
	NVIDIA® GeForce® 9300GE, 512 MB
	NVIDIA® GeForce® 405 display port full height
	LFH59/ 2x DVI-I adapter cable
	LFH59/ 2x DP adapter cable
	DP to DVI-D (single link) Adapter Cable
	ATI Radeon® HD 5450, 512 MB
Drives (optional)	Blu-ray Disc™ Triple Writer
Control (opinion),	DVD-ROM
	DVD Super Multi
	MultiCard Reader 20in1, USB 2.0, 3.5-Inch
Interface add on cards/components (optional)	
	Parallel Interface
	CATALL
	eSATA Interface
Base unit	ESPRIMO P5645 E-Star5

Mainboard	
Mainboard type	D2981
Formfactor	μВТХ
Chipset	AMD 785G
Processor socket	AM3
Processor quantity maximum	1
System bus (FSB / HT / QPI)	up to 4000 MHz
Memory slots	4 DIMM (DDR3)
Supported capacity RAM (max.)	16 GB
Memory frequency	1333 MHz
Memory notes	Dual channel support.
	For dual channel performance, identical memory modules in each channel are necessary (minimum 2 modules).
LAN	10/100/1000 MBit/s Broadcom BCM57780
BIOS version	Phoenix 6.0
BIOS features	BIOS Flash EPROM update by software Recovery BIOS
Audio codec	Realtek ALC663
Audio features	Internal speaker supports audio playback, High Definition audio
I/O controller on board	
Serial ATA total	4
thereof eSATA	1 (optional)
Controller functions	Serial ATA II
	NCQ and 3 GBit
	AHCI
	Raid 1/0
Interfaces	
Audio: line-in	1
Audio: line-in / microphone	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
USB 2.0 total	12
USB front	2
USB rear	6
USB internal	4
VGA	1 (via DVI to VGA adaptor; included for onboard graphics only)
DisplayPort	1
DVI	1 (Dual link DVI-I)
Serial (RS-232)	1 (9pin, 16 byte FIFO, 16550 compatible)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	1 (optional) (25pin with EPP and ECP)
Interface Module notes	Anytime USB charge functionality
Input device / components	Optical USB tilt wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse
	Optical OSD/1 SZ tilt which mouse
Drive bays	6
Drive bays total	6
3.5-inch internal bays	2
3.5-inch external bays	2
5.25-inch external bays	2

cl.	
Slots	1 /220 \FL CL.
PCI-Express 2.0 x16	1 x (230 mm) FlexySlot
PCI-Express 2.0 x4 (mech. x16)	1 x (230 mm) full height
PCI (32-bit / 33 MHz)	2 x (170 / 315 mm) full height
Graphics on board	
Graphics brand name	ATI Radeon® HD 4200
Shared video memory	up to 2811 MB
Refresh rate 1024 x 768 (recommended / max.)	85 Hz / -
Refresh rate 1280 x 1024 (recommended / max.)	85 Hz / -
Refresh rate 1600 x 1200 (recommended / max.)	85 Hz / -
TFT resolution (VGA)	1360 x 768 pixel
, ,	1440 x 900 pixel
	1600 x 900 pixel
	1680 x 1050 pixel
	1920 x 1080 pixel
TET lostin - (DVII)	1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel
	1600 x 900 pixel
	1680 x 1050 pixel
	1920 x 1080 pixel
	1920 x 1200 pixel
	2560 x 1440 pixel
	2560 x 1600 pixel
TFT resolution (DisplayPort)	1360 x 768 pixel
	1440 x 900 pixel
	1600 x 900 pixel 1680 x 1050 pixel
	1920 x 1080 pixel
	1920 x 1200 pixel
	2560 x 1440 pixel
	2560 x 1600 pixel
Graphics features	Dual display support
	DirectX 10.1
	HDCP support
Craphics pates	OpenGL® 2.0
Graphics notes	up to 512 MB dedicated video memory (main memory owned and locked for graphics use) Tested resolutions, depending on display type additional resolutions and frequencies possible
	Shared memory depending on main memory size and operating system
	Resolution (color depth up to 32 Bit/pixel)
	For TFT we recommend using 60Hz
Electrical values	
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 85% / 87% / 85%)
·	0-Watt mode with hard-off switch
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Operating voltage range	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz
Max. output of single power supply	300 W
Power factor correction/active power	active
Monitor outlet	No

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Power consumption	Consulting and a Farmy Consumption
Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=03379136-b9f6-4001-9a0d-319eb452db6a
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise for standard configuration (HDD, 0	ODD, FDD)
Noise emission	According to ISO9296
Related Processors for noise	AMD® Phenom™ II X4 945
Noise Operation mode 1: ODD load (Blue angel requirement)	4.4B / 29 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.8B / 22 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.8B / 24 dB(A)
Noise Operation mode 4: High load	4.0B / 24 dB(A)
Noise Operation mode 5: Office applications	3.7B / 22 dB(A)
Idle mode (Blue Angel requirement)	3.7B / 21 dB(A)
Noise notes / description	A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	203 x 390 x 392 mm
Operating position	Vertical
Weight	approx. 12 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35℃
Compliance	
Product	ESPRIMO P5645
Model	MI3W-D2981
Germany	Blauer Engel / Blue Angel GS optional
Europe	CE Nordic Swan in progress
USA/Canada	FCC Class B cCSAus
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0 EPEAT® Silver
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx
Additional Software	
Additional software (preinstalled)	Nero Essentials S (burning software)
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not supported under Windows XP if the system runs on Intel onboard graphics) Nero 9 Essentials XL
Miscellaneous	
	Keyboard on (Special Fujitsu keyboard required) Thermal management

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DNI 2.0 PC 2001 PC 2001 WW 1.5 USB 2.0 SWBIDS WBIDS WB	Compatibility (references)	
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Maintenance and Support Services - the perfect extension	
Recommended Service	5x9, Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice



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Software

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More information

Learn more about Fujitsu ESPRIMO P5645 E-Star5, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

http://ts.fujitsu.com/ESPRIMO

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